

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P239834

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5660 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

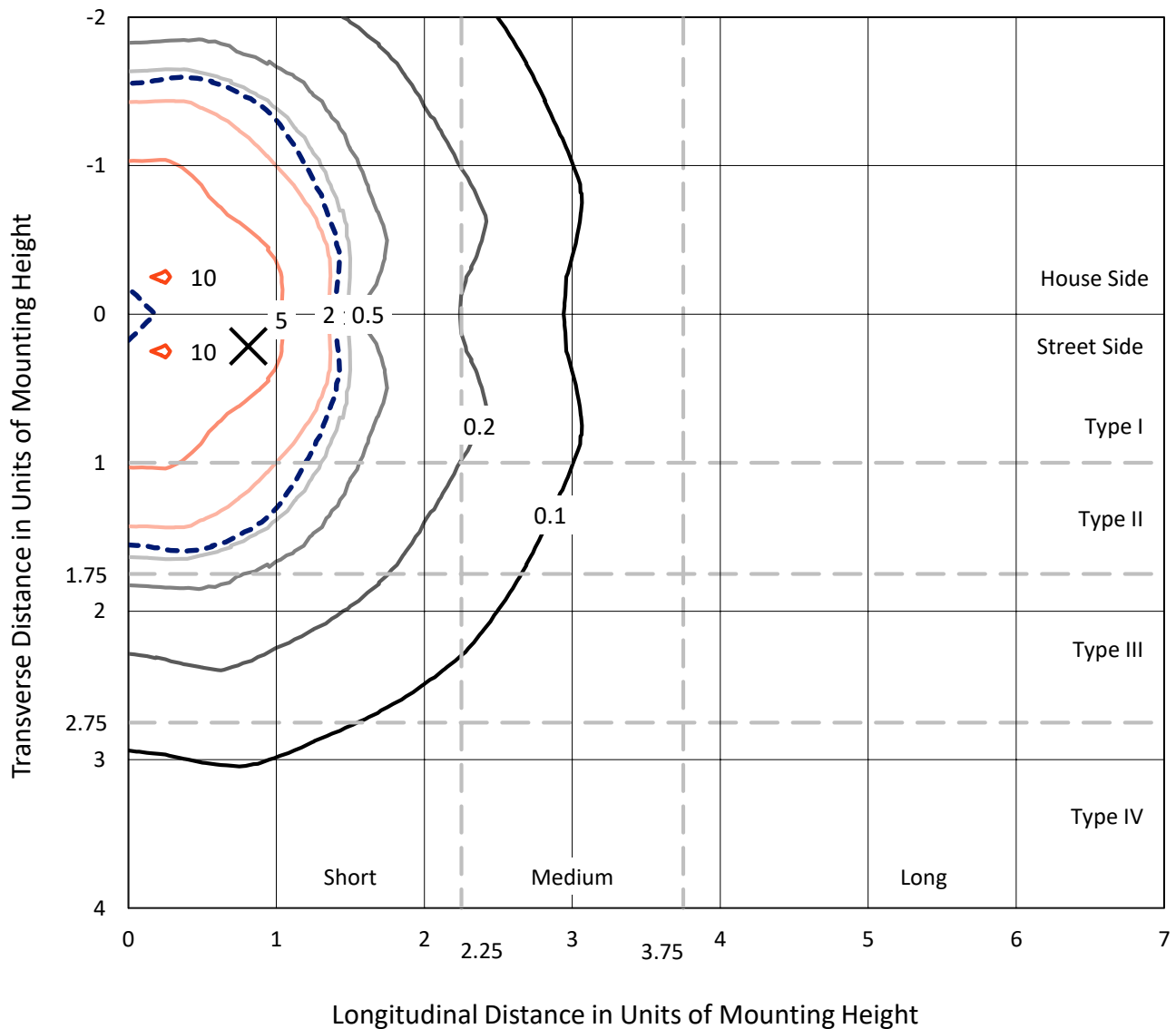


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

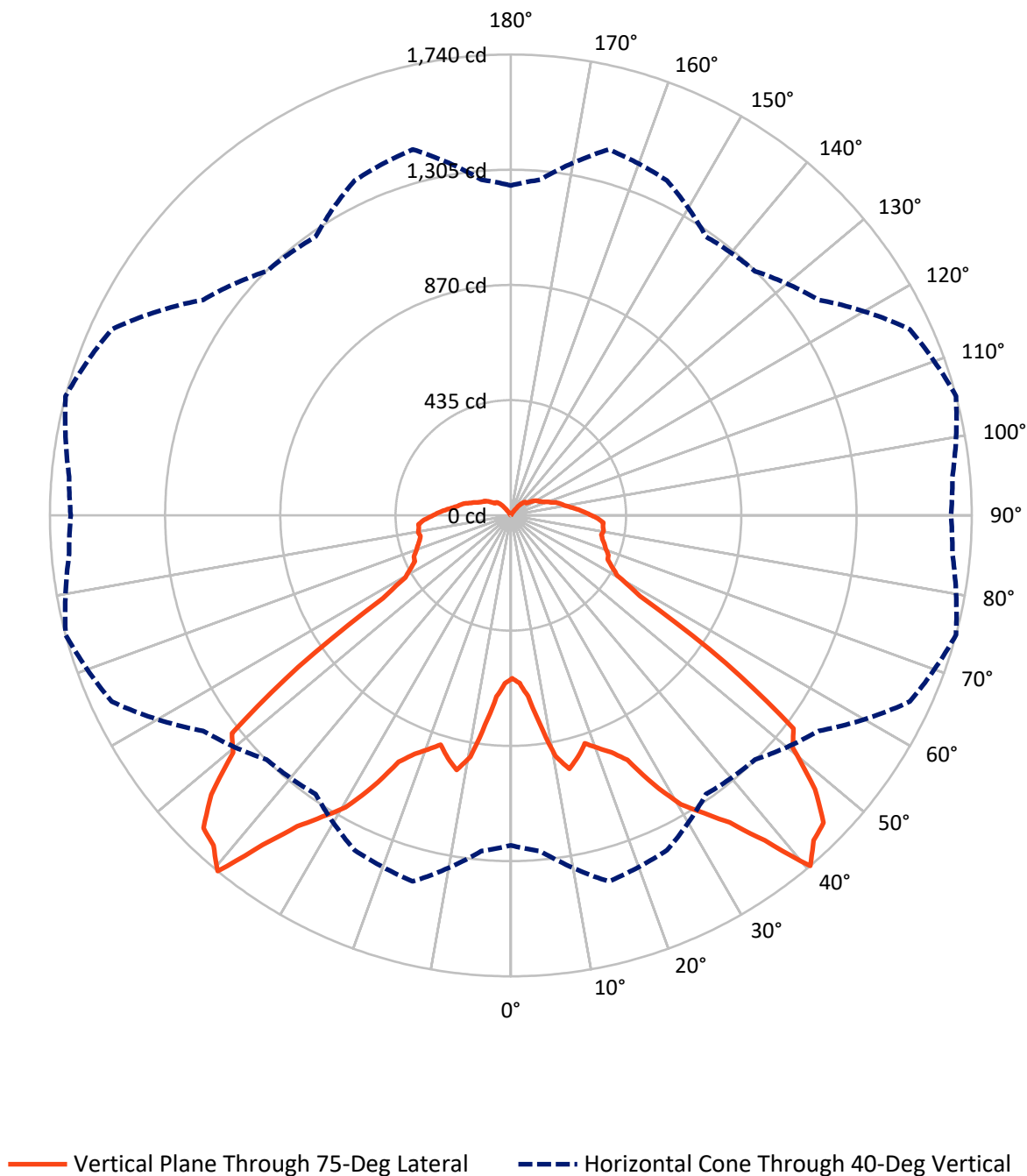


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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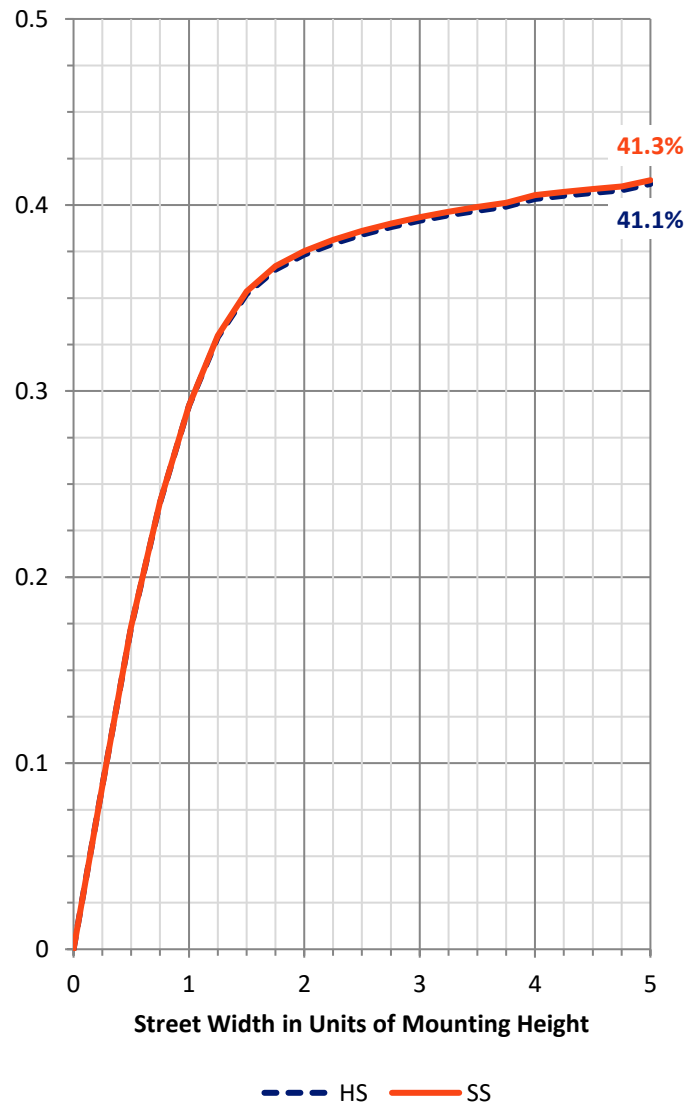
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2446.6	383.4	2830.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2446.6	383.4	2830.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	4893.2	766.9	5660.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.3
10°-20°	294.8	5.2
20°-30°	526.6	9.3
30°-40°	833.7	14.7
40°-50°	1118.6	19.8
50°-60°	890.4	15.7
60°-70°	408.6	7.2
70°-80°	372.5	6.6
80°-90°	375.3	6.6
90°-100°	288.6	5.1
100°-110°	201.5	3.6
110°-120°	133.1	2.4
120°-130°	83.2	1.5
130°-140°	48.7	0.9
140°-150°	11.1	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4893.2	86.5
0°-180°	5660.0	100.0

Coefficient of Utilization



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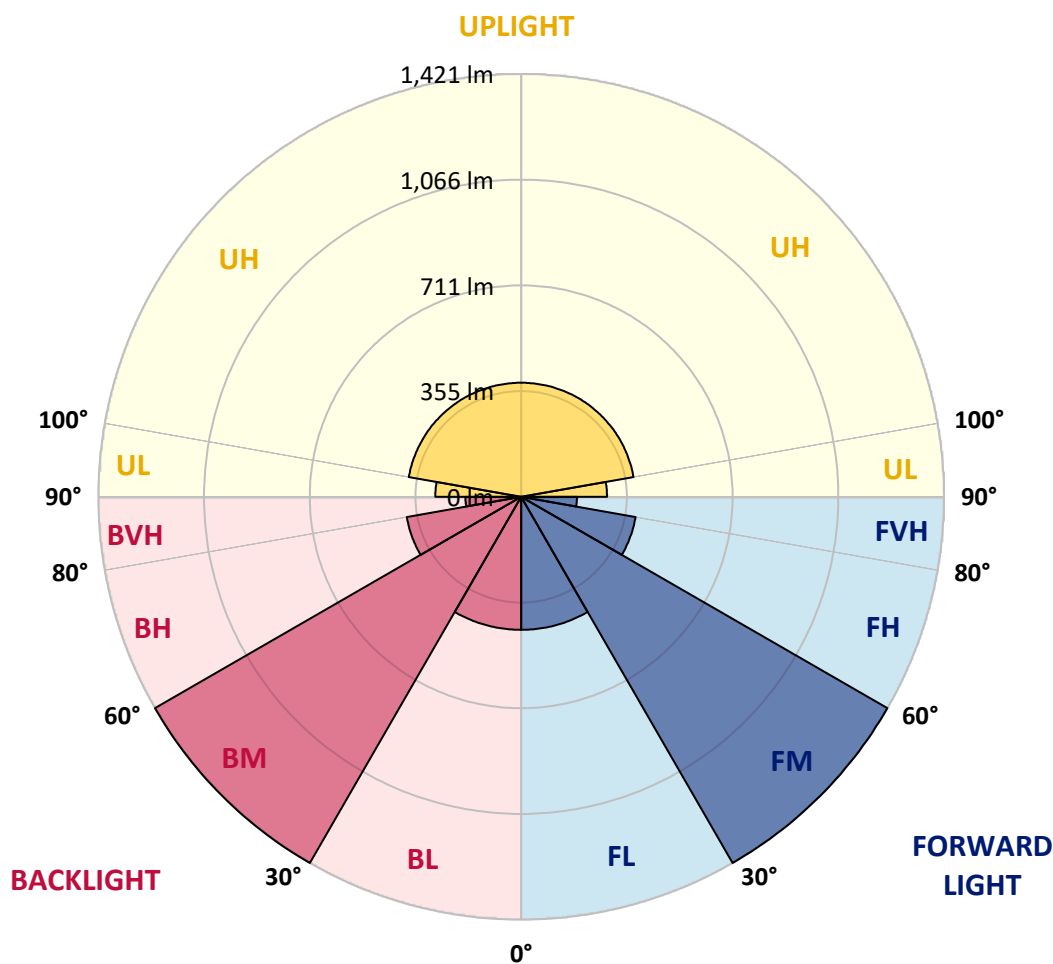
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	447.0	7.9			
FM	(30°-60°)	1421.4	25.1			
FH	(60°-80°)	390.6	6.9			G0/660
FVH	(80°-90°)	187.6	3.3			G2/225
BL	(0°-30°)	447.0	7.9	B1/500		
BM	(30°-60°)	1421.4	25.1	B2/2500		
BH	(60°-80°)	390.6	6.9	B1/500		G0/660
BVH	(80°-90°)	187.6	3.3			G2/225
UL	(90°-100°)	288.6	5.1		U3/500	
UH	(100°-180°)	383.4	6.8		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	631.6	631.6	631.6	630.1	631.6	633.1	634.6	634.6	633.9	631.6	630.1
5°	676.1	676.1	675.3	676.8	676.8	673.8	675.3	680.6	685.9	682.1	680.6
7.5°	783.8	781.6	776.3	771.8	766.5	766.5	777.8	784.6	796.7	798.2	794.4
10°	892.4	895.4	898.4	898.4	911.2	925.5	935.3	932.3	923.3	916.5	912.0
12.5°	924.0	926.3	952.7	1019.0	1068.0	1107.9	1074.0	1022.8	982.1	955.7	952.7
15°	948.1	954.2	987.3	1070.2	1193.1	1226.3	1156.2	1025.8	946.6	909.0	900.7
17.5°	972.3	979.0	1034.8	1154.7	1251.9	1243.6	1159.2	1019.7	904.4	854.7	848.7
20°	951.2	958.7	1037.1	1197.6	1268.5	1228.5	1199.1	1068.0	936.8	879.6	872.8
22.5°	959.5	967.0	1046.1	1202.1	1245.9	1248.1	1202.9	1124.5	970.8	905.2	894.6
25°	974.5	980.6	1078.5	1236.1	1236.8	1230.8	1208.2	1165.2	1022.0	959.5	950.4
27.5°	974.5	979.8	1089.8	1221.7	1230.0	1216.5	1245.1	1260.9	1150.9	1095.1	1097.4
30°	1018.2	1021.3	1135.1	1220.2	1201.4	1211.9	1292.6	1340.8	1265.5	1175.8	1175.0
32.5°	1103.4	1117.7	1237.6	1272.2	1198.4	1208.2	1304.6	1389.1	1340.1	1232.3	1220.2
35°	1212.7	1216.5	1326.5	1317.5	1220.2	1215.0	1333.3	1465.2	1423.7	1317.5	1313.7
37.5°	1248.1	1253.4	1384.5	1360.4	1246.6	1251.1	1380.8	1557.9	1556.4	1471.2	1444.1
40°	1245.1	1271.5	1429.8	1394.3	1284.3	1303.1	1417.7	1661.9	1739.5	1673.2	1661.1
42.5°	1469.7	1483.3	1576.0	1447.8	1319.0	1319.0	1432.8	1641.5	1676.2	1549.6	1524.7
45°	1493.1	1492.3	1594.1	1491.6	1328.0	1297.1	1379.3	1563.9	1654.4	1570.7	1533.8
47.5°	1444.8	1463.7	1590.3	1466.7	1311.4	1235.3	1287.3	1475.0	1545.1	1416.2	1386.8
50°	1392.8	1407.1	1503.6	1352.9	1229.3	1175.0	1214.2	1349.9	1377.8	1222.5	1199.9
52.5°	1250.4	1251.9	1366.4	1247.4	1157.7	1101.9	1133.6	1259.4	1335.5	1187.1	1171.2
55°	1059.7	1080.0	1225.5	1151.6	1073.3	1025.0	1031.1	1052.2	985.1	762.7	710.7
57.5°	810.2	836.6	1006.2	1009.9	949.7	872.8	788.4	667.8	575.1	369.3	355.0
60°	551.7	574.3	702.4	734.1	758.2	670.0	545.7	476.3	462.0	320.3	309.8
62.5°	341.4	360.3	480.1	491.4	544.2	489.1	432.6	411.5	428.1	306.0	298.5
65°	315.8	328.6	416.8	400.2	413.0	410.0	385.1	381.4	401.7	298.5	293.2
67.5°	305.2	315.8	385.9	373.8	379.1	383.6	366.3	369.3	397.2	304.5	298.5
70°	300.0	311.3	376.1	367.8	373.1	377.6	367.0	362.5	380.6	306.8	298.5
72.5°	296.2	308.3	361.0	355.7	370.1	382.1	371.6	361.8	369.3	308.3	300.0
75°	289.4	301.5	347.5	350.5	372.3	386.6	373.1	358.0	357.3	305.2	295.4
77.5°	287.9	301.5	333.1	352.0	373.1	391.9	381.4	359.5	349.7	306.8	294.7
80°	285.6	300.7	339.9	364.0	379.1	388.9	384.4	369.3	355.0	318.1	305.2
82.5°	298.5	312.0	345.9	373.1	377.6	376.1	376.1	366.3	350.5	318.8	306.8
85°	314.3	324.8	360.3	376.1	372.3	362.5	358.0	357.3	349.7	327.1	317.3
87.5°	311.3	318.8	342.9	358.0	359.5	339.9	340.7	336.1	327.9	305.2	297.0
90°	290.9	296.2	323.3	339.2	329.4	313.5	306.8	297.7	298.5	278.1	272.1
92.5°	277.4	283.4	303.0	312.0	310.5	284.1	279.6	278.9	274.3	257.0	253.2
95°	259.3	263.0	279.6	291.7	284.1	257.0	252.5	248.7	249.5	242.7	243.4
97.5°	254.7	257.8	269.8	267.6	254.7	231.4	228.4	226.9	226.1	222.3	221.6
100°	245.0	245.0	248.7	241.9	226.9	209.5	205.0	205.8	206.5	202.0	200.5
102.5°	228.4	229.1	230.6	224.6	210.3	192.2	187.7	191.4	192.9	191.4	190.7
105°	216.3	215.6	216.3	209.5	193.7	177.9	172.6	176.4	180.1	180.9	179.4
107.5°	198.2	197.5	197.5	190.7	178.6	165.8	161.3	159.0	159.0	159.0	159.0
110°	171.8	172.6	172.6	169.6	163.6	156.0	150.0	145.5	147.0	146.2	147.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	159.8	159.8	158.3	156.0	150.0	142.4	135.7	132.7	131.1	130.4	131.1
115°	147.0	147.7	143.2	141.7	135.7	131.1	124.4	122.1	122.1	124.4	125.9
117.5°	135.7	135.7	132.7	128.9	123.6	119.8	116.8	115.3	115.3	118.3	118.3
120°	122.9	122.9	119.8	115.3	113.1	107.8	108.5	107.8	110.0	113.8	114.6
122.5°	108.5	108.5	105.5	101.7	103.3	99.5	98.0	95.0	99.5	104.0	104.8
125°	96.5	95.7	92.7	88.2	94.2	94.2	90.4	80.6	86.7	90.4	91.2
127.5°	88.2	87.4	83.7	79.1	86.7	91.2	82.9	73.1	76.1	79.9	81.4
130°	83.7	82.9	79.1	73.9	76.1	86.7	74.6	70.1	73.9	77.6	77.6
132.5°	80.6	79.9	76.9	71.6	67.8	79.1	67.1	68.6	73.9	77.6	77.6
135°	74.6	74.6	70.8	63.3	54.3	58.0	54.3	61.8	67.8	70.8	71.6
137.5°	64.1	64.1	61.0	54.3	43.7	41.5	43.0	52.8	59.5	62.6	62.6
140°	50.5	49.7	46.7	40.7	28.6	19.6	27.9	39.9	46.7	49.7	49.7
142.5°	35.4	34.7	30.9	24.9	15.1	6.8	15.1	24.1	30.9	33.9	34.7
145°	22.6	22.6	19.6	15.1	7.5	2.3	6.0	14.3	18.8	21.9	21.9
147.5°	14.3	14.3	12.1	8.3	2.3	1.5	2.3	6.8	11.3	13.6	14.3
150°	8.3	8.3	6.0	3.0	1.5	0.8	1.5	2.3	4.5	6.8	6.8
152.5°	3.0	2.3	1.5	1.5	0.8	0.8	0.8	1.5	1.5	2.3	2.3
155°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)